





## RAW SEQUENCE LISTING PATENT APPLICATION US/08/349,177A

DATE: 03/04/98 TIME: 18:31:32

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1 2		SEQUENCE LISTING
3 4	(1) G	eneral Information:
5 6 7 8	(i)	APPLICANT: Grey, Howard M. Sette, Alessandro Sidney, John
9 10	(ii)	TITLE OF INVENTION: HLA-A2.1 Binding Peptides and Their Uses
11 12	(iii)	NUMBER OF SEQUENCES: 349
13 14 15 16 17 18	(iv)	CORRESPONDENCE ADDRESS:  (A) ADDRESSEE: Townsend and Townsend and Crew LLP  (B) STREET: Two Embarcadero Center, Eighth Floor  (C) CITY: San Francisco  (D) STATE: California  (E) COUNTRY: USA  (F) ZIP: 94111-3834
20 21 22 23 24 25	(V)	COMPUTER READABLE FORM:  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible  (C) OPERATING SYSTEM: PC-DOS/MS-DOS  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26 27 28 29 30	(vi)	CURRENT APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/349,177  (B) FILING DATE: 02-DEC-1994  (C) CLASSIFICATION:
31 32 33 34 35	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/027,146  (B) FILING DATE: 05-MAR-1993
36 37 38 39	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/073,205  (B) FILING DATE: 04-JUN-1993
40 41 42 43	(vii)	PRIOR APPLICATION DATA:  (A) APPLICATION NUMBER: US 08/159,184  (B) FILING DATE: 29-NOV-1993
44 45 46	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Bastian, Kevin L. (B) REGISTRATION NUMBER: 34,774

#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/349,177A

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47
               (C) REFERENCE/DOCKET NUMBER: 018623-005840US
48
         (ix) TELECOMMUNICATION INFORMATION:
49
50
               (A) TELEPHONE: (415) 576-0200
51
               (B) TELEFAX: (415) 576-0300
52
53
     (2) INFORMATION FOR SEQ ID NO:1:
54
55
56
          (i) SEQUENCE CHARACTERISTICS:
57
               (A) LENGTH: 9 amino acids
58
               (B) TYPE: amino acid
59
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60
               (D) TOPOLOGY: linear
61
62
        (ii) MOLECULE TYPE: peptide
63
64
65
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66
67
         Ala Leu Glu Ala Gln Glu Ala Leu
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               (C) STRANDEDNESS:
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77
               (D) TOPOLOGY: linear
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79
        (ii) MOLECULE TYPE: peptide
80
81
82
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83
84
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               (D) TOPOLOGY: linear
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96
        (ii) MOLECULE TYPE: peptide
97
98
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        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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### RAW SEQUENCE LISTING PATENT APPLICATION US/08/349,177A

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112
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119
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          Gln Ile Met Pro Lys Thr Gly Phe Leu
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         (ii) MOLECULE TYPE: peptide
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         (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
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### RAW SEQUENCE LISTING PATENT APPLICATION US/08/349,177A

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                (D) TOPOLOGY: linear
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163
          (ii) MOLECULE TYPE: peptide
164
165
166
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           Pro Leu Val Leu Gly Thr Leu Glu Glu Val
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          (ii) MOLECULE TYPE: peptide
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          (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
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           Cys Ile Leu Glu Ser Leu Phe Arg Ala Val
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     (2) INFORMATION FOR SEQ ID NO:9:
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                 (D) TOPOLOGY: linear
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          (ii) MOLECULE TYPE: peptide
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 200
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
 201
 202
           Ala Val Ile Thr Lys Lys Val Ala Asp Leu
 203
                                                 10
                            5
 204
           1
 205
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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/349,177A

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Val Ile Thr Lys Lys Val Ala Asp Leu Val 1	208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10: Val Ile Thr Lys Lys Val Ala Asp Leu Val
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10  (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (C) STRANDEDNESS: (A) LENGTH: 10 amino acids (C) STRANDEDNESS: (D) TOPOLOGY: linear  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:11  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:12  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:13  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:14  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:15  (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS:	209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10: Val Ile Thr Lys Lys Val Ala Asp Leu Val
(A) LENGTH: 10 amino acids	210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10: Val Ile Thr Lys Lys Val Ala Asp Leu Val
(B) TYPE: amino acid	211 212 213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  Val Ile Thr Lys Lys Val Ala Asp Leu Val
C   STRANDEDNESS:	212 213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 232 233 234	(C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  Val Ile Thr Lys Lys Val Ala Asp Leu Val
(D) TOPOLOGY: linear	213 214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  Val Ile Thr Lys Lys Val Ala Asp Leu Val
214 215	214 215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  Val Ile Thr Lys Lys Val Ala Asp Leu Val
(ii) MOLECULE TYPE: peptide   (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10	215 216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 232 233 234	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
216 217 218	216 217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
217 218	217 218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	Val Ile Thr Lys Lys Val Ala Asp Leu Val
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10   219	218 219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	Val Ile Thr Lys Lys Val Ala Asp Leu Val
Val Ile Thr Lys Lys Val Ala Asp Leu Val 1	219 220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	Val Ile Thr Lys Lys Val Ala Asp Leu Val
Val Ile Thr Lys Lys Val Ala Asp Leu Val 1	220 221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	- 10
221 1 5 10  222  223  224 (2) INFORMATION FOR SEQ ID NO:11:  225  226 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear  231  232 (ii) MOLECULE TYPE: peptide  233  234  235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  236  237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Valance 238 1 5 10  239  240  241 (2) INFORMATION FOR SEQ ID NO:12:  242  243 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS:	221 222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	- 10
222 223 224 (2) INFORMATION FOR SEQ ID NO:11: 225 226 (i) SEQUENCE CHARACTERISTICS: 227 (A) LENGTH: 10 amino acids 228 (B) TYPE: amino acid 229 (C) STRANDEDNESS: 230 (D) TOPOLOGY: linear 231 232 (ii) MOLECULE TYPE: peptide 233 234 235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: 236 237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	222 223 224 (2) 225 226 227 228 229 230 231 232 233 234	
223 224 (2) INFORMATION FOR SEQ ID NO:11: 225 226 (i) SEQUENCE CHARACTERISTICS:	223 224 (2) 225 226 227 228 229 230 231 232 233 234	1 5 10
224 (2) INFORMATION FOR SEQ ID NO:11:  225  226 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS:  (D) TOPOLOGY: linear  231  232 (ii) MOLECULE TYPE: peptide  233  234  235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:  236  237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va  238 1 5 10  239  240  241 (2) INFORMATION FOR SEQ ID NO:12:  242  243 (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 amino acids  (B) TYPE: amino acid  246 (C) STRANDEDNESS:	224 (2) 225 226 227 228 229 230 231 232 233 234	
225 226 (i) SEQUENCE CHARACTERISTICS: 227 (A) LENGTH: 10 amino acids 228 (B) TYPE: amino acid 229 (C) STRANDEDNESS: 230 (D) TOPOLOGY: linear 231 232 (ii) MOLECULE TYPE: peptide 233 234 235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12 236 237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	225 226 227 228 229 230 231 232 233 234	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS:  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15  (xi) SEQUENCE CHARACTERISTICS:	226 227 228 229 230 231 232 233 234	INFORMATION FOR SEQ ID NO:11:
(A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear (II) MOLECULE TYPE: peptide (XI) SEQUENCE DESCRIPTION: SEQ ID NO:12 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:13 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:14 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:15 (XI) SEQUENCE DESCRIPTION: SEQ ID NO:16 (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS:	227 228 229 230 231 232 233 234	·
(B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear (II) MOLECULE TYPE: peptide (XI) SEQUENCE DESCRIPTION: SEQ ID NO:12 (XI) SEQUENCE CHARACTERISTICS:	228 229 230 231 232 233 234	
(C) STRANDEDNESS: (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: peptide  (ii) MOLECULE TYPE: peptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12  (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10 amino acids (B) TYPE: amino acid (C) STRANDEDNESS:	229 230 231 232 233 234	
230 (D) TOPOLOGY: linear 231 232 (ii) MOLECULE TYPE: peptide 233 234 235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: 236 237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	230 231 232 233 234	(B) TYPE: amino acid
231 232 (ii) MOLECULE TYPE: peptide 233 234 235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: 236 237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	231 232 233 234	(C) STRANDEDNESS:
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236 237 Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	233	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
Leu Leu Lys Tyr Arg Ala Arg Glu Pro Va 238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:		, , -
238 1 5 10 239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:		Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val
239 240 241 (2) INFORMATION FOR SEQ ID NO:12: 242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	_	_ 10
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242 243 (i) SEQUENCE CHARACTERISTICS: 244 (A) LENGTH: 10 amino acids 245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:		INFORMATION FOR SEQ ID NO:12:
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245 (B) TYPE: amino acid 246 (C) STRANDEDNESS:	_	
246 (C) STRANDEDNESS:		
/#/ [D] IOFOLOGI: TTMEGI	247	(D) TOPOLOGY: linear
248		
249 (ii) MOLECULE TYPE: peptide		(ii) MOLECULE TYPE: peptide
250		(11) melbert total papers
251		
252 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
253 (XI) SECONNEL PERSONAL TEST SEC. 253		(111) 2000 and 2000 and 110 an
253 254 Glu Ile Phe Gly Lys Ala Ser Glu Ser L		Glu Ile Phe Gly Lys Ala Ser Glu Ser Leu
_	255	1 5 10
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255		
256 257	258 (2)	

# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/349,177A*

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